

Singhastava

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SEP 01 2003

TECH CENTER 1600/2900

1653

#6

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/444,281

DATE: 08/30/2000

TIME: 21:21:11

Input Set : A:\411.app

Output Set: N:\CRF3\08302000\I444281.raw

ENTERED

4 <110> APPLICANT: Burian, Jan
5 Bartfeld, Daniel
8 <120> TITLE OF INVENTION: EFFICIENT METHODS FOR PRODUCING
9 ANTIMICROBIAL CATIONIC PEPTIDES IN HOST CELLS
12 <130> FILE REFERENCE: 660081.411
C--> 14 <140> CURRENT APPLICATION NUMBER: US/09/444,281
15 <141> CURRENT FILING DATE: 1999-11-19
17 <160> NUMBER OF SEQ ID NOS: 113
19 <170> SOFTWARE: FastSEQ for Windows Version 3.0
21 <210> SEQ ID NO: 1
22 <211> LENGTH: 20
23 <212> TYPE: DNA
24 <213> ORGANISM: Artificial Sequence
26 <220> FEATURE:
27 <223> OTHER INFORMATION: Primer for PCR amplification
29 <400> SEQUENCE: 1
30 gcgtccggcg tagaggatcg 20
32 <210> SEQ ID NO: 2
33 <211> LENGTH: 25
34 <212> TYPE: DNA
35 <213> ORGANISM: Artificial Sequence
37 <220> FEATURE:
38 <223> OTHER INFORMATION: Primer for PCR amplification
40 <400> SEQUENCE: 2
41 ccgggatcca atgttgcaga agtag 25
43 <210> SEQ ID NO: 3
44 <211> LENGTH: 20
45 <212> TYPE: DNA
46 <213> ORGANISM: Artificial Sequence
48 <220> FEATURE:
49 <223> OTHER INFORMATION: Primer for PCR amplification
51 <400> SEQUENCE: 3
52 gcgtccggcg tagaggatcg 20
54 <210> SEQ ID NO: 4
55 <211> LENGTH: 38
56 <212> TYPE: DNA
57 <213> ORGANISM: Artificial Sequence
59 <220> FEATURE:
60 <223> OTHER INFORMATION: Primer for PCR amplification
62 <400> SEQUENCE: 4
63 atatggatcc agatatgtat cataggttga tgttgggc 38
65 <210> SEQ ID NO: 5
66 <211> LENGTH: 39
67 <212> TYPE: DNA
68 <213> ORGANISM: Artificial Sequence
70 <220> FEATURE:
71 <223> OTHER INFORMATION: Synthesized oligonucleotide used as template for

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72      PCR
74 <400> SEQUENCE: 5
75      tttaacgggg atccgtctca tatgatcctg aaaaaatgg          39
77 <210> SEQ ID NO: 6
78 <211> LENGTH: 49
79 <212> TYPE: DNA
80 <213> ORGANISM: Artificial Sequence
82 <220> FEATURE:
83 <223> OTHER INFORMATION: Synthesized Oligonucleotide used as a template for
84      PCR
86 <400> SEQUENCE: 6
87      ccgtggtggc cgtggcgctg taaataagct tgatatcttg gtacctgcg          49
89 <210> SEQ ID NO: 7
90 <211> LENGTH: 24
91 <212> TYPE: DNA
92 <213> ORGANISM: Artificial Sequence
94 <220> FEATURE:
95 <223> OTHER INFORMATION: Primer for PCR amplification
97 <400> SEQUENCE: 7
98      tttaacgggg atccgtctca tatg          24
100 <210> SEQ ID NO: 8
101 <211> LENGTH: 25
102 <212> TYPE: DNA
103 <213> ORGANISM: Artificial Sequence
105 <220> FEATURE:
106 <223> OTHER INFORMATION: Primer for PCR amplification
108 <400> SEQUENCE: 8
109      taagcttgat atcttggtac ctgcg          25
111 <210> SEQ ID NO: 9
112 <211> LENGTH: 24
113 <212> TYPE: DNA
114 <213> ORGANISM: Artificial Sequence
116 <220> FEATURE:
117 <223> OTHER INFORMATION: Primer used for PCR modification of DNA fragment
118      encoding MBI-11
120 <400> SEQUENCE: 9
121      tttaacgggg atccgtctca tatg          24
123 <210> SEQ ID NO: 10
124 <211> LENGTH: 48
125 <212> TYPE: DNA
126 <213> ORGANISM: Artificial Sequence
128 <220> FEATURE:
129 <223> OTHER INFORMATION: Primer used for PCR modification of DNA fragment
130      encoding MBI-11
132 <400> SEQUENCE: 10
133      cgcaagctt aataatacat aattttacga cgccacggcc accacggc          48
135 <210> SEQ ID NO: 11
136 <211> LENGTH: 114
137 <212> TYPE: DNA

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138 <213> ORGANISM: Artificial Sequence
140 <220> FEATURE:
141 <223> OTHER INFORMATION: Synthesized oligonucleotide used as a template for
142 PCR
144 <400> SEQUENCE: 11
145 cgccagggtt ttcccagtca cgacggatcc gtctcatatg atcctgaaaa aatggccgtg 60
146 gtggccgtgg cgctgtaaaa ttaattgaat tcgtcatagc tgtttcctgt gtga 114
148 <210> SEQ ID NO: 12
149 <211> LENGTH: 24
150 <212> TYPE: DNA
151 <213> ORGANISM: Artificial Sequence
153 <220> FEATURE:
154 <223> OTHER INFORMATION: Primer for PCR amplification
156 <400> SEQUENCE: 12
157 cgccagggtt ttcccagtca cgac 24
159 <210> SEQ ID NO: 13
160 <211> LENGTH: 22
161 <212> TYPE: DNA
162 <213> ORGANISM: Artificial Sequence
164 <220> FEATURE:
165 <223> OTHER INFORMATION: Primer for PCR amplification
167 <400> SEQUENCE: 13
168 tcacacagga aacagctatg ac 22
170 <210> SEQ ID NO: 14
171 <211> LENGTH: 151
172 <212> TYPE: DNA
173 <213> ORGANISM: Artificial Sequence
175 <220> FEATURE:
176 <223> OTHER INFORMATION: Synthesized oligonucleotide used as a template for
177 PCR
179 <400> SEQUENCE: 14
180 cgccagggtt ttcccagtca cgacggatcc gtctcatatg attctgcgtt ggccgtggtg 60
181 gccgtggcgt cgcaaaatga ttctgcgttg gccgtggtgg ccgtggcgtc gcaaaatggc 120
182 ggctaagct tcgatacctct acgccggacg c 151
184 <210> SEQ ID NO: 15
185 <211> LENGTH: 24
186 <212> TYPE: DNA
187 <213> ORGANISM: Artificial Sequence
189 <220> FEATURE:
190 <223> OTHER INFORMATION: Primer for PCR amplification
192 <400> SEQUENCE: 15
193 cgccagggtt ttcccagtca cgac 24
195 <210> SEQ ID NO: 16
196 <211> LENGTH: 20
197 <212> TYPE: DNA
198 <213> ORGANISM: Artificial Sequence
200 <220> FEATURE:
201 <223> OTHER INFORMATION: Primer for PCR amplification
203 <400> SEQUENCE: 16

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204  gcgtccggcg tagaggatcg                                20
206 <210> SEQ ID NO: 17
207 <211> LENGTH: 108
208 <212> TYPE: DNA
209 <213> ORGANISM: Artificial Sequence
211 <220> FEATURE:
212 <223> OTHER INFORMATION: Synthesized oligonucleotide us as a template for
213     PCR
215 <400> SEQUENCE: 17
216  cgccagggtt ttcccagtcg cgacggatcc gtctcatatg attctgcgtt ggccgtggtg    60
217  gccgtggcgt cgcaaaatgc ataagcttcg atcctctacg cgggacgc    108
219 <210> SEQ ID NO: 18
220 <211> LENGTH: 24
221 <212> TYPE: DNA
222 <213> ORGANISM: Artificial Sequence
224 <220> FEATURE:
225 <223> OTHER INFORMATION: Primer for PCR amplification
227 <400> SEQUENCE: 18                                24
228  cgccagggtt ttcccagtcg cgac
230 <210> SEQ ID NO: 19
231 <211> LENGTH: 20
232 <212> TYPE: DNA
233 <213> ORGANISM: Artificial Sequence
235 <220> FEATURE:
236 <223> OTHER INFORMATION: Primer for PCR amplification
238 <400> SEQUENCE: 19                                20
239  gcgtccggcg tagaggatcg
241 <210> SEQ ID NO: 20
242 <211> LENGTH: 97
243 <212> TYPE: DNA
244 <213> ORGANISM: Artificial Sequence
246 <220> FEATURE:
247 <223> OTHER INFORMATION: Synthesized oligonucleotide used as a template for
248     PCR
250 <400> SEQUENCE: 20
251  cgccagggtt ttcccagtcg cgacggatcc gtctatgcat gaagcggaac cggaagcgga    60
252  accgattaat taagcttcga tcctctacgc cgggacgc    97
254 <210> SEQ ID NO: 21
255 <211> LENGTH: 24
256 <212> TYPE: DNA
257 <213> ORGANISM: Artificial Sequence
259 <220> FEATURE:
260 <223> OTHER INFORMATION: Primer for PCR amplification
262 <400> SEQUENCE: 21                                24
263  cgccagggtt ttcccagtcg cgac
265 <210> SEQ ID NO: 22
266 <211> LENGTH: 20
267 <212> TYPE: DNA
268 <213> ORGANISM: Artificial Sequence

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270 <220> FEATURE:
271 <223> OTHER INFORMATION: Primer for PCR amplification
273 <400> SEQUENCE: 22
274 gcgtccggcg tagaggatcg 20
276 <210> SEQ ID NO: 23
277 <211> LENGTH: 114
278 <212> TYPE: DNA
279 <213> ORGANISM: Artificial Sequence
281 <220> FEATURE:
282 <223> OTHER INFORMATION: Synthesized oligonucleotide used as a template for
283 PCR
285 <400> SEQUENCE: 23
286 cgccagggtt ttcccagtca cgacggatcc gtctcatatg actatgattc tgcgttggcc 60
287 gtggtggccg tggcgtcgca aaatgcataa gcttcgatcc tctacgccg acgc 114
289 <210> SEQ ID NO: 24
290 <211> LENGTH: 24
291 <212> TYPE: DNA
292 <213> ORGANISM: Artificial Sequence
294 <220> FEATURE:
295 <223> OTHER INFORMATION: Primer for PCR amplification
297 <400> SEQUENCE: 24
298 cgccagggtt ttcccagtca cgac 24
300 <210> SEQ ID NO: 25
301 <211> LENGTH: 20
302 <212> TYPE: DNA
303 <213> ORGANISM: Artificial Sequence
305 <220> FEATURE:
306 <223> OTHER INFORMATION: Primer for PCR amplification
308 <400> SEQUENCE: 25
309 gcgtccggcg tagaggatcg 20
311 <210> SEQ ID NO: 26
312 <211> LENGTH: 157
313 <212> TYPE: DNA
314 <213> ORGANISM: Artificial Sequence
316 <220> FEATURE:
317 <223> OTHER INFORMATION: Synthesized oligonucleotide used as a template for
318 PCR
320 <400> SEQUENCE: 26
321 cgccagggtt ttcccagtca cgacggatcc gtctcatatg accatgaaat ggaaatcttt 60
322 catcaaaaaa ctgacctctg ctgctaaaaa agttgttacc accgctaaac cgctgatctc 120
323 tatgcatgct taagcttcga tctctacgc cggacgc 157
325 <210> SEQ ID NO: 27
326 <211> LENGTH: 11
327 <212> TYPE: PRT
328 <213> ORGANISM: Apis mellifera
330 <220> FEATURE:
331 <223> OTHER INFORMATION: Anionic spacer peptide
333 <400> SEQUENCE: 27
334 His Glu Ala Glu Pro Glu Ala Glu Pro Ile Met

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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/444,281

DATE: 08/30/2000

TIME: 21:21:12

Input Set : A:\411.app

Output Set: N:\CRF3\08302000\I444281.raw

L:14 M:270 C: Current Application Number differs, Replaced Current Application Number